

**RANJEET DESHMUKH DENTAL COLLEGE AND RESEARCH
CENTRE, NAGPUR**

List of Patent Applications till June 2026

Sr. No.	Name of Staff Member	Name of the Department	Year	Application Number	Title	Applied/ Published
1	Dr Sandeep Khandaitkar	OMFS	2026	202621012175 A	A LOAD SENSOR-BASED RELEASE DEVICE FOR CEILING FANS	Published
2	Dr. Akhil Rathi, Dr. Saeed Deshpande, Dr. Neelam Pande	Prosthodontics	2025	Patent – 20252104486A	Adjustable Dental Impression Tray	Published
3	Dr. Abhay Kolte Dr. Pranjali Bawankar Dr. Rajashri Kolte Dr. Ritika Gattani	Periodontics	2026	202621006472A	A Formulation and Process for preparation of vitamins D3 enriched injectable bone regenerative paste	Published
4	Dr. Pranjali Bawankar Dr. Rathod Surekha Dr. Roshni valecha Dr. Ritika Gattani Dr. Abhay Kolte Dr. Jadhav Shivshankar	Periodontics	2026	202621006471A	An herbal Gum paint formulation comprising melatonin and amla for gingivitis	Published
5	Dr. Surekha Rathod Dr. Roshni Valecha	Periodontics	2026	IN20262100273 7	A formulation for periodontal dressing and preparation method thereof	Published
6	Dr. Vrushali Lathiya Dr. Abhay Kolte	Periodontics	2025	202521079198	An instrument for periodontal disease diagnosis	Published

	Dr. Abhijeet Raut Dr. Dhawal Mody					
7	Dr. Neelam Pande	Prosthodontics	2024-2025	432809-001	Gothic arch training device for complete denture patients	Published
8	Dr. Saeed Deshpande	Prosthodontics	2024-2025	202421058430	Device for adjustment of occlusal plane	Published
9	Dr. Saeed Deshpande	Prosthodontics	2024-2025	202221018438	Device to check tissue compressibility of edentulous patients	Published
10	Dr. Akhil Rathi	Prosthodontics	2024-2025	202521014456	'An adjustable impression tray'	Patent early publication
11	Dr. Surekha Rathod	Periodontics	2024-2025	202521015106	Herbal Effervescent Foaming tooth tablet and preparation method thereof	Published
12	Dr. Surekha Rathod	Periodontics	2024-2025	202421072091	An osteoanabolic dental gel formulation and preparation method thereof	Published
13	Dr. Pranjali Bawankar	Periodontics	2024-2025	202521002126 A	Patent entitled "A rechargeable Gum Massager"	Published
14	Dr. Pranjali Bawankar	Periodontics	2024-2025	202521037820 A	Patent applied for "Rechargeable gingival scraper."	Published
15	Dr. Pranjali Bawankar	Periodontics	2024-2025	202521038035	Patent applied for "Dental mouth prop with protective guard."	Published
16	Dr. Pranjali Bawankar	Periodontics	2024-2025	202521037812	Patent applied for "A customisable impression tray for dental implant procedures."	Published
17	Dr. Pranjali Bawankar	Periodontics	2024-2025	202521029644	Oral dental polymer composite hydrogel formulation and preparation method thereof	Published
18	Dr. Chetana Makde	Conservative Dentistry and Endodontics	2024-2025	438025-001	Customized jig tooth brushing simulation device	Published

19	Dr. Vinisha Bajaj	Periodontics	2024-2025	20242107352	A rechargeable periosteal elevator	Published
20	Dr. Surekha Rathod	Periodontics	2024-2025	202421006731	An AI based portable device for Dental disease protection	Published
21	Dr. Rajesh Kubde	Conservative Dentistry and Endodontics	2024-2025	20242104801A	A tongue retractor	Published
22	Dr. Pratima Shenoi	Conservative Dentistry and Endodontics	2024-2025	202421059318A	FOCUS	Published
23	Dr. Rajesh Kubde	Conservative Dentistry and Endodontics	2024-2025	202521009523 A	An automated device for cutting gutta percha	Published
24	Dr. Gautam Badole	Conservative Dentistry and Endodontics	2024-2025	202421101943-A	Split Mould For Single Tooth.	Published
25	Dr Neelam Pande	Prosthodontics	2023	202321020845	A device to receive full porcelain fused to metal restorations	Published
26	Dr. Rajashri Kolte Dr. Abhay Kolte	Periodontics & Implantology	2024	202321084978 A	A dental device for intraoral visibility and photography aid.	Published
27	Dr. Surekha Rathod Dr. Pranjali Bawankar	Periodontics & Implantology	2024	202421043656	A dental gel formulation and preparation method there of	Published
28	Dr. Surekha Rathod	Periodontics & Implantology	2024	202221069556	NOVEL ZR55CO30Ti15 ALLOY	Published
29	Dr. Surekha Rathod Dr. Pranjali Bawankar	Periodontics & Implantology	2024	202421030005	Herbal Mouthwash for oral hygiene maintenance	Published
30	Dr. Surekha Rathod Dr. Prachi Rathi	Periodontics & Implantology	2024	202321076838	A dentognathic model for crown lengthening procedure.	Published
31	Dr. Surekha Rathod	Periodontics & Implantology	2023	202321041670	A Process for preparation of gel by combination of Psidium guava leaf extract and Syzygium cumini seed extract for	Published

					the treatment of chronic periodontitis.	
32	Dr. Pranjali Bawankar Dr. Surekha Rathod	Periodontics & Implantology	2024	202421052632	A biomaterial based in-situ gel and preparation method thereof	Published
33	Dr. Surekha Rathod Dr. Prachi Rathi	Periodontics & Implantology	2024	202421053097	“An apparatus for the preparation of PRF membranes”	Published
34	Dr. Surekha Rathod Dr. Pranjali Bawankar	Periodontics & Implantology	2024	202421065423	Clean Flow Perio Elevator	Published
35	Dr. Surekha Rathod	Periodontics & Implantology	2024	202421072091	An osteoanabolic dental gel formulation and preparation method thereof”	Published
36	Dr. Surekha Rathod	Periodontics & Implantology	2024	202421006731	An Artificial Intelligence based potable device for dental disease detection	Submitted
37	Dr. Dhawal Mody Dr. Vrushali Lathiya Dr. Abhay Kolte	Periodontics & Implantology	2024	202421006084	Mucoadhesive `proniosomal gel formulation comprising doxycycline and preparation method thereof.	
38	Dr Pranjali Bawankar Dr. Abhay Kolte	Periodontics & Implantology	2024	202421028984	A self-retained intraoral retractor cum bite block	Published
39	Dr. Pranjali Bawankar Dr. Abhay Kolte	Periodontics & Implantology	2024	202421028983	An in situ formulation comprising vitamin D3 and preparation method thereof	Published
40	Dr Pratima Sheno Dr. S R Sheno Dr. Shriya Shahu	Conservative Dentistry and Endodontics	2024	202021042255	Patent Granted for A pouch for sterilization and storage of Dental Operative instruments.	Published
41	Dr. Ashish Bodhade &	Oral Pathology &	2023	202321029215	Utility Patent application titled	Applied

	Dr. Alka Dive	Microbiology			“DEVICE FOR JAW OPENING EXERCISE”	
42	Dr. Sandeep Khandaitkar, Dr. Shashank Hiwarkar, Dr. Gagandeep Lamba	Oral Surgery	2022	202221029849 A	A maxillo - mandibular fixation device	Published
43	Dr. Pranjali Bawankar Dr. Abhay Kolte	Periodontics & Implantology	2023	202321034556A	Vitamin D3 in situ gel formation and method of preparation thereof.	Published
44	Dr. Neelam Pande	Prosthodontics	2023	202321020845	A device to receive Full porcelain-fused-to- metal restorations	Published
45	Dr. Surekha Rathod, Dr. Pranjali Bawankar, Dr. Shivshankar Jadhav	Periodontics & Implantology	2022	202221024984	A Gel Composition for treatment of chronic periodontitis and method preparation thereof.	Published
46	Saee Deshpande	Prosthodontics	2022	202221018438	“A device to check tissue compressibility for edentulous patients”	Applied